



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/713,296	11/16/2000	Larry Perrault	45197.2	3706

22828 7590 08/23/2005

EDWARD YOO C/O BENNETT JONES
1000 ATCO CENTRE
10035 - 105 STREET
EDMONTON, ALBERTA, AB T5J3T2
CANADA

EXAMINER

A, PHI DIEU TRAN

ART UNIT	PAPER NUMBER
----------	--------------

3637

DATE MAILED: 08/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/713,296

Applicant(s)

PERRAULT ET AL.

Examiner

Phi D. A

Art Unit

3637

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 June 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-17, 20 and 21 is/are rejected.
- 7) ☒ Claim(s) 18-19 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 17, 20-21 are rejected under 35 U.S.C. 102(e) as being anticipated by Kost (6047503).

Kost (figure 12) shows an improved roof truss comprising a bottom chord (6), a bottom plate (2A) disposed underneath and substantially parallel to the bottom chord, means (7) for attaching the bottom plate to the bottom chord, spacers (figure 6, the part located between parts 6 and 1A and connecting the two sides of the H-shaped), disposed between the bottom plate and the bottom chord which create a thermal gap between the bottom plate and the bottom chord, a strap (figure 12) located at the intersection of the bottom plate and an interior partition wall, the strap passing between bottom plate (2A) and the bottom chord (6), the strap may be fastened to the interior partition wall wherein fasteners can be driven through the planar member on either side of the bottom plate so as to attach the bottom plate to the interior partition wall, the strap being metal.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 3637

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-5, 7-11, 13-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Laughlin (1444798) in view of Kost (6047503).

Laughlin (figure 1) shows an improved roof truss comprising a bottom chord (10'), a top chord (26) and at least two intermediate members creating a triangular shape with one of the top or bottom chords, a bottom plate (10) disposed beneath and substantially parallel to the bottom chord.

Laughlin does not show means for attaching the bottom plate to the bottom chord which allows separation of the bottom plate from the bottom chord when the bottom plate is attached to an interior partition wall and the roof truss rises relative to the interior partition wall, the means being a plurality of connectors, the connectors being removable and frangible, the connectors are gang plates, the connectors comprise a plurality of wood fasteners and hangers having a plurality of holes, the wood fasteners being driven through the holes in the hangers into the bottom plate, the bottom chord or both, the hangers being frangible, the hangers having a perforation disposed in such a way that if the hanger is severed at the perforation the hanger and fasteners will no longer act to attach the bottom plate to the bottom chord, the hangers being H-shaped, the hangers being U-shaped, the hangers being metallic wrap-around hangers.

Kost shows means (7, figure 6) for attaching the bottom plate to the bottom chord, the means being connectors (7), the connectors being removable (only fastened by fasteners 25A, 25C) and frangible (inherently so as the connectors having holes along the sides), the connectors being gang plates, the connectors comprise a plurality of wood fasteners (25A, 25C, inherently

Art Unit: 3637

wood fasteners as they connect wood parts together) and hangers having a plurality of holes, the wood fasteners being driven through the holes in the hangers into the bottom plate, the bottom chord or both, the hangers being frangible, the hangers having a perforation(7A) disposed in such a way that if the hanger is severed at the perforation the hanger and fasteners will no longer act to attach the bottom plate to the bottom chord, the hangers being H-shaped (7), the hangers being U-shaped (8), the hangers being metallic wrap-around hangers.

It would have been obvious to one having ordinary skill in the art at the time of the invention to modify Laughlin's structure to show means for attaching the bottom plate to the bottom chord, the means being connectors (7), the connectors being removable and frangible, the connectors being gang plates, the connectors comprise a plurality of wood fasteners and hangers having a plurality of holes, the wood fasteners being driven through the holes in the hangers into the bottom plate, the bottom chord or both, the hangers being frangible, the hangers having a perforation disposed in such a way that if the hanger is severed at the perforation the hanger and fasteners will no longer act to attach the bottom plate to the bottom chord, the hangers being H-shaped, the hangers being U-shaped, the hangers being metallic wrap-around hangers as taught by Kost because it enables the secured connection of the bottom plate to the bottom chord which results in a stable and strong roof structure.

Laughlin as modified inherently shows the roof structure allows for the separation of the bottom plate from the bottom chord when the bottom plate is attached to an interior partition wall and the roof truss rises relative to the interior partition wall, the connectors being slidably attached to the bottom plate and roof truss (inherently so as the connector is slid between the structures before fastening).

Art Unit: 3637

3. Claims 1-2, 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Laughlin (1444798) in view of Thompson (6094880).

Laughlin (figure 1) shows an improved roof truss comprising a bottom chord (10'), a top chord (26) and at least two intermediate members creating a triangular shape with one of the top or bottom chords, a bottom plate (10) disposed beneath and substantially parallel to the bottom chord.

Laughlin does not show means for attaching the bottom plate to the bottom chord which allows separation of the bottom plate from the bottom chord when the bottom plate is attached to an interior partition wall and the roof truss rises relative to the interior partition wall, the means being a plurality of connectors, the connectors are fasteners driven through the bottom plate into the bottom of the bottom chord.

Thompson shows means (col 7 lines 14-17) for attaching the bottom plate to the bottom chord, the means being a plurality of connectors, the connectors are fasteners (nails) driven through the bottom plate into the bottom of the bottom chord

It would have been obvious to one having ordinary skill in the art at the time of the invention to modify Laughlin's structure to show means for attaching the bottom plate to the bottom chord, the means being connectors (7), the connectors are fasteners driven through the bottom plate into the bottom of the bottom chord as taught by Thompson because it enables the secured connection of the bottom plate to the bottom chord which results in a stable and strong roof structure.

Laughlin as modified inherently shows the roof structure allows for the separation of the bottom plate from the bottom chord when the bottom plate is attached to an interior partition wall and the roof truss rises relative to the interior partition wall.

4. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Laughlin (1444798) in view of Kost (6047503) as applied to claim 11 above and further in view of Boozer (5743063).

Laughlin as modified shows all the claimed limitations except for the holes being vertically slotted holes.

Boozer discloses slotted holes (figure 8C) for connecting a hanger (89) to other structural members.

It would have been obvious to one having ordinary skill in the art at the time of the invention to modify Laughlin's modified structure to show the holes being vertically slotted holes as taught by Boozer because it would have been an obvious matter of engineering design choice to have the holes being vertically slotted holes since applicant has not disclosed that the vertical slotted holes solve any stated problem or is for any particular purpose and it appears that the invention would perform equally well with just holes.

5. Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Laughlin (1444798) in view of Kost (6047503).

Laughlin (figure 1) shows an improved roof truss comprising a bottom chord (26), a bottom plate (10) disposed underneath and substantially parallel to the bottom chord, spacers (10') disposed between the bottom plate and the bottom chord which create a thermal gap between the bottom plate and the bottom chord.

Art Unit: 3637

Laughlin does not show means for attaching the bottom plate to the bottom chord.

Kost shows means (7) for attaching the bottom plate to the bottom chord.

It would have been obvious to one having ordinary skill in the art at the time of the invention to modify Laughlin's structure to show means for attaching the bottom plate to the bottom chord as taught by Kost because it enables the secured connection of the bottom plate to the bottom chord which results in a stable and strong roof structure.

Allowable Subject Matter

6. Claims 18-19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

7. The following is a statement of reasons for the indication of allowable subject matter: prior art does not show the bracket positioned between the bottom plate and the bottom chord, located at the intersection of the bottom plate and an interior partition wall, the bracket having a horizontal planar member on the top of the bottom plate attached to vertical planar members on either side of the bottom plate which are attached to horizontal planar members extending away from the bottom plate along the top surface of the interior partition wall in combination with other claimed limitations.

Response to Arguments

8. Applicant's arguments filed 6/11/05 have been fully considered but they are not persuasive.

Applicant states that Kost does not show a roof truss and thus the structures pointed out by the examiner that meet the claimed limitations, are not equivalent, examiner respectfully

Art Unit: 3637

disagrees. Kost (figure 12) shows a frame structure for functioning as a support for a roof. The frame is also made of truss system. The structure is therefore a roof truss. Webster's dictionary states: truss → an assemblage of members (as beams) forming a rigid framework. Kost's structure certainly satisfies the definition. In combination with the fact that the truss is used to support a roof, the structure hence is a roof truss. The argument is thus moot.

With respect to Laughlin and the elements 10, 10' not being part of the roof truss, examiner respectfully disagrees. the reference shows the limitations as claimed. there is nothing in the claimed language that differentiates from the structures of Laughlin as pointed out in the rejection above. with respect to roof structure, Laughlin shows a frame that supports roofing material later on. The reference, therefore, shows a roof truss system.

The combination of Laughlin and Kost, thus is proper, and shows the limitations as claimed.

With respect to Thompson, examiner respectfully points out that the reference shows the use of connectors with nails to connect a plate and a chord together. The teaching of Laughlin as modified by Thompson shows connectors with nails connecting the plate and chord together. The reference as modified shows all the claimed limitations. The argument is thus moot.

Claim 12 is thus also rejected under the prior art of Laughlin, Kost and Boozer.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO**

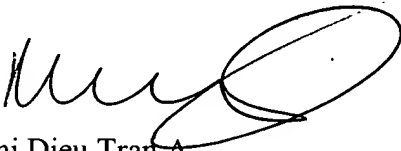
Art Unit: 3637

MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phi D A whose telephone number is 571-272-6864. The examiner can normally be reached on Monday-Tuesday, Thursday and Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lanna Mai can be reached on 571-272-6867. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Phi Dieu Tran A

8/19/05